

# MOUSE MONOCLONAL ANTIBODIES TO HIV-1P24 AND THEIR USE IN DIAGNOSTIC TESTS

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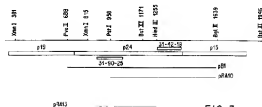


FIG. 3

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## [57] Abstract:

The present invention provides monoclonal antibodies demonstrating specific reactivity with HIV-1 p24. One monoclonal antibody designated 31-42-19 recognizes an unique epitope on HIV-1 p24 that is not immunogenic in humans. 31-42-19 also reacts with an antigenically cross reactive epitope on HIV-2 p24. Another monoclonal antibody designated 31-90-25 recognizes an epitope within a highly immunogenic region of HIV-1 p24. The present invention also provides cell lines capable of producing these monoclonal antibodies. The invention also includes a highly sensitive enzyme immunoassay for the detection of HIV-1 p24 in biological fluids, using a monoclonal antibody mixture. The present invention further provides methods for the use of these monoclonal antibodies for the detection of anti-HIV-1 p24 antibodies and HIV-2 p24 antigen in biological samples.

[52] **US Class:**

[51] **Int'l Class:** G01N0033577 C12P002108 A61K0039395 C12N000520 G01N0033569 C07K001610 C12R000191

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